

Title (en)

VEHICLE BRAKED BY MOTOR TORQUE AND METHOD OF CONTROLLING THE VEHICLE

Title (de)

DURCH DAS MOTORDREHMOMENT GEBREMSTES FAHRZEUG UND VERFAHREN ZUR REGELUNG DES FAHRZEUGES.

Title (fr)

VEHICULE FREINE PAR COUPLE MOTEUR ET PROCEDE DE COMMANDE DU VEHICULE

Publication

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Application

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Abstract (en)

The present invention enables a deceleration to be readily adjustable in the course of braking control with a torque of a motor mounted on a vehicle. In one embodiment, the vehicle has a power system including an engine 10, a motor 20, a torque converter 30, a transmission 100, and an axle 17 that are linked with one another in series. The transmission is a mechanism that changes over a gear ratio under control of a control unit 70 to vary the transmitted torque. The driver manipulates a gearshift lever in the vehicle to specify a desired deceleration by power source braking. The control unit refers to a predetermined map and specifies a combination of motor torque and gear ratio to attain the specified deceleration. In the course of braking control, the deceleration is corrected according to a step-on amount of an accelerator pedal in a range of play of the accelerator pedal. This arrangement facilitates minute adjustment of the deceleration by the power source braking. <IMAGE>

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Cited by

DE102004002442B4; DE102012214743A1; EP1800985A3; RU2689058C2; CN101918254A; EP2186699A4; CN106536300A; EP3170711A4; EP1419924A1; RU2680056C2; EP3023290A1; EP1356972A1; EP1327556A1; EP1645449A3; EP2159091A3; EP2091773A4; US8321113B2; US7363122B2; US7374509B2; US6735511B2; US10011283B2; US7848867B2; WO2007107462A1; WO03062004A1; WO2015025003A1; WO2007048542A1; WO03059674A1; WO2018054880A3; US7243010B2; US9932027B2; US10352383B2; US8230956B2; US8587424B2; US9013292B2; US9511710B2; US7096109B2; US10017182B2; US10202120B2; US10611376B2; US8757307B2; US10322725B2; US10569780B2; DE102021127049A1; US11904683B2; US9944272B2; US10828989B2; EP2055558B1

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